

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-36. (cancelled)

37. (currently amended) A process for producing a material for restoring a mineralized substance in the dental field, said process comprising the steps of:

providing an aqueous liquid part;

providing a solid part ~~including~~ consisting of between 1 and 30% by weight of calcium carbonate and between 70% and 99% by weight of at least one silicate selected from tricalcium silicate and dicalcium silicate, optionally an amount of a radio-opacity increasing agent, and optionally an amount of a colouring agent;

providing calcium chloride and a water-reducing agent, both contained in ~~at least one of the aqueous liquid and solid parts~~ part;

obtaining a uniform mixture of the solid part and the liquid part; and

restoring said mineralized substance by using said uniform mixture as an apical sealing cement, by retrograde surgical route or canal route, or as a dentino-cemental substitute in the case of iatrogenic or pathological canal or pulpal floor perforations, or as a cavity-lining material with or without pulpal exposure, or a jawbone filling material, by placing said uniform mixture on a tooth part to be restored and allowing the mixture placed on the tooth part to set.

38. (currently amended) A process according to claim 37, wherein the solid part and the liquid part ~~using~~ are mixed using means for transmitting a high energy to said mixture in order to obtain a uniform paste.

39. (cancelled)

40. (previously presented) A process according to claim 37, wherein the tooth-restoration material is used with an amalgam carrier.

41. (previously presented) A process according to claim 37, wherein the mixture is used for the restoration of posterior teeth.

42. (currently amended) A process according to claim 37, ~~wherein~~ ~~the~~ wherein the mixture has a setting time which is compatible with a handling time by a practitioner in the dental field.

43. (cancelled)

44. (currently amended) A process ~~according to claim 37, wherein~~ ~~the solid part further includes~~ for producing a material for restoring a mineralized substance in the dental field, said process comprising the steps of:

providing an aqueous liquid part;

providing a solid part consisting of between 1 and 30% by weight of calcium carbonate and between 70% and 99% by weight of at least one silicate selected from tricalcium silicate and dicalcium silicate, zirconium oxide in an amount between 0 and

15% by weight of all of the constituents of the solid part,
optionally an amount of a radio-opacity increasing agent, and
optionally an amount of a colouring agent;

providing calcium chloride and a water-reducing agent, both
contained in the aqueous liquid part;

obtaining a uniform mixture of the solid part and the liquid
part; and

restoring said mineralized substance by using said uniform
mixture as an apical sealing cement, by retrograde surgical
route or canal route, or as a dentino-cemental substitute in the
case of iatrogenic or pathological canal or pulpal floor
perforations, or as a cavity-lining material with or without
pulpal exposure, or a jawbone filling material, by placing said
uniform mixture on a tooth part to be restored and allowing the
mixture placed on the tooth part to set.

45. (previously presented) A process according to claim 37,
wherein the liquid part contains calcium chloride dihydrate
(CaCl_2 , $2\text{H}_2\text{O}$) with a content between 1 and 35% by weight with
respect to a total volume of the liquid part.

46. (previously presented) A process according to claim 45,
wherein said calcium chloride dihydrate (CaCl_2 , $2\text{H}_2\text{O}$) is present
in a content between 9 and 25% by weight with respect to the
total volume of the liquid part.

47. (currently amended) A process ~~according to claim 37, wherein~~
~~the solid part contains~~ for producing a material for restoring a
mineralized substance in the dental field, said process
comprising the steps of:

providing an aqueous liquid part;

providing a solid part consisting of between 1 and 30% by weight of calcium carbonate and between 70% and 99% by weight of at least one silicate selected from tricalcium silicate and dicalcium silicate, calcium chloride dihydrate ($\text{CaCl}_2, 2\text{H}_2\text{O}$) with a content between 0.1 and 10% by weight of all of constituents of the solid part, optionally an amount of a radio-opacity increasing agent, and optionally an amount of a colouring agent;
providing calcium chloride and a water-reducing agent, both contained in the aqueous liquid part;
obtaining a uniform mixture of the solid part and the liquid part; and
restoring said mineralized substance by using said uniform mixture as an apical sealing cement, by retrograde surgical route or canal route, or as a dentino-cemental substitute in the case of iatrogenic or pathological canal or pulpal floor perforations, or as a cavity-lining material with or without pulpal exposure, or a jawbone filling material, by placing said uniform mixture on a tooth part to be restored and allowing the mixture placed on the tooth part to set.

48. (currently amended) A process according to claim 47, wherein said calcium chloride dihydrate ($\text{CaCl}_2, 2\text{H}_2\text{O}$) is present in an amount between 0.9 and 7.5%.

49. (previously presented) A process according to claim 37, wherein the liquid part contains a water-reducing agent in a proportion between 0.1 and 10% by weight of a total volume of the liquid part.

50. (previously presented) A process according to claim 49, wherein said water-reducing agent is present in an amount from

1.0 to 5.0% by weight of the total volume of the liquid part.

51. (previously presented) A process according to claim 49, wherein said water-reducing agent is present in an amount from 2.0 to 4.0% by weight of the total volume of the liquid part.

52. (currently amended) A process according to claim ~~37~~ 66, wherein ~~the solid part includes a~~ the water-reducing agent is present in a proportion between 0.01 and 3% by weight of all of constituents of the solid part

53. (previously presented) A process according to claim 52, wherein said water-reducing agent is present in an amount from 0.15 to 1.25% by weight of all the constituents of the solid part.

54. (previously presented) A process according to claim 52, wherein said water-reducing agent is present in an amount from 0.38 to 0.84% by weight of all the constituents of the solid part.

55. (previously presented) A process according to claim 49, wherein the water reducing agent is a plasticizer.

56. (previously presented) A process according to claim 55, wherein the water-reducing agent is selected from the group consisting of polynaphthalene sulfonate and a modified polycarboxylate-based plasticizer.

57. (previously presented) A process according to claim 52, wherein the water-reducing agent is a plasticizer.

58. (previously presented) A process according to claim 57, wherein the water-reducing agent is selected from the group consisting of polynaphthalene sulfonate and a modified polycarboxylate-based plasticizer.

59. (previously presented) A process according to claim 37, wherein the liquid part/solid part mass ratio is between 0.1 and 0.3.

60. (previously presented) A process according to claim 59, wherein the liquid part/solid part mass ratio is between 0.15 and 0.25.

61. (previously presented) A process according to claim 59, wherein the liquid part/solid part mass ratio is between 0.17 and 0.23.

62. (previously presented) A process according to claim 37, wherein at least 90% of the particles of each of the constituents of the solid part has a particle size of less than 10 μm .

63. (cancelled)

64. (previously presented) A process according to claim 37, wherein the solid part further includes a radio-opacity increasing agent in order to improve radiographic control for restoration of the mineralized substance.

65. (new) A process for producing a material for restoring a mineralized substance in the dental field, said process comprising the steps of:

providing an aqueous liquid part;

providing a solid part consisting of between 1 and 30% by weight of calcium carbonate and between 70% and 99% by weight of at least one silicate selected from tricalcium silicate and dicalcium silicate, an amount of calcium chloride, optionally an amount of a radio-opacity increasing agent, and optionally an amount of a colouring agent;

providing a water-reducing agent in the aqueous liquid part;

obtaining a uniform mixture of the solid part and the liquid part; and

restoring said mineralized substance by using said uniform mixture as an apical sealing cement, by retrograde surgical route or canal route, or as a dentino-cemental substitute in the case of iatrogenic or pathological canal or pulpal floor perforations, or as a cavity-lining material with or without pulpal exposure, or a jawbone filling material, by placing said uniform mixture on a tooth part to be restored and allowing the mixture placed on the tooth part to set.

66. (new) A process for producing a material for restoring a mineralized substance in the dental field, said process comprising the steps of:

providing an aqueous liquid part;

providing a solid part consisting of between 1 and 30% by weight of calcium carbonate and between 70% and 99% by weight of at least one silicate selected from tricalcium silicate and dicalcium silicate, an amount of a water reducing agent,

optionally an amount of a radio-opacity increasing agent, and optionally an amount of a colouring agent;

providing calcium chloride in the aqueous liquid part;

obtaining a uniform mixture of the solid part and the liquid part; and

restoring said mineralized substance by using said uniform mixture as an apical sealing cement, by retrograde surgical route or canal route, or as a dentino-cemental substitute in the case of iatrogenic or pathological canal or pulpal floor perforations, or as a cavity-lining material with or without pulpal exposure, or a jawbone filling material, by placing said uniform mixture on a tooth part to be restored and allowing the mixture placed on the tooth part to set.

67. (new) A process for producing a material for restoring a mineralized substance in the dental field, said process comprising the steps of:

providing an aqueous liquid part;

providing a solid part consisting of between 1 and 30% by weight of calcium carbonate and between 70% and 99% by weight of at least one silicate selected from tricalcium silicate and dicalcium silicate, an amount of calcium chloride, an amount of a water reducing agent, optionally an amount of a radio-opacity increasing agent, and optionally an amount of a colouring agent;

providing calcium chloride and a water-reducing agent, both contained in the aqueous liquid part;

obtaining a uniform mixture of the solid part and the liquid part; and

restoring said mineralized substance by using said uniform mixture as an apical sealing cement, by retrograde surgical route or canal route, or as a dentino-cemental substitute in the

case of iatrogenic or pathological canal or pulpal floor perforations, or as a cavity-lining material with or without pulpal exposure, or a jawbone filling material, by placing said uniform mixture on a tooth part to be restored and allowing the mixture placed on the tooth part to set.